

Project Audit



Project:
Pyrrho

March 01, 2022



P y r r h o



Pyrrho



Overview

This audit has been prepared for **Pyrrho** to review the main aspects of the project to help investors make make an informative decision in the research process.

You will find a a summarized review of the following main key point:

- Contract's source code
- Project and team
- Website
- Social media & online presence

NOTE: We ONLY consider a project safe if they receive our "Certificate of Trust" NFT. This report only points out any potential red flags found in our analysis. Always do your own research before investing in a project.

Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.



"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"
– SpyWolf Team

Smart Contract Summary

Contract Name	Pyrrho
Ticker	PYO
Contract	0xe6DF015f66653EcE085A5FBBa8d42C356114ce4F
Network	Binance Smart Chain
Language	Solidity
Tax	No tax
Total Supply	5,000,000,000
Status	Launched

Current stats

Burn	0.0240% of total supply
LP Address	0xbE9407d507e59EEeC20374d371021a7360302810 100% of liquidity is locked in Unicrypt Unlock date 2023.01.01
MaxTxAmount	No limit

Smart Contract Statistics

Transfer Count	35542
Uniq Senders	4237
Uniq Receivers	5190
Total Amount	51187369819 PYO
Median Transfer Amount	107256 PYO
Average Transfer Amount	1440193.8500834217 PYO
First transfer date	2021-12-02
Last transfer date	2022-03-01
Days tokens Transfer	56

Issues Checking Status	
Design Logic	Passed ✓
Compiler warnings.	Passed ✓
Private user data leaks	Passed ✓
Timestamp dependence	Passed ✓
Integer Overflow and Underflow	Passed ✓
Race conditions and Reentrancy. Cross-function race conditions	Passed ✓
Possible delays in data delivery	Passed ✓
Oracle calls	Passed ✓
Front running	Passed ✓
DoS with Revert	Passed ✓
DoS with block gas limit	Passed ✓
Methods execution permissions	Passed ✓
Economy model	Passed ✓
The impact of the exchange rate on the logic	Passed ✓
Malicious Event log	Passed ✓
Scoping and Declarations	Passed ✓
Uninitialized storage pointers	Passed ✓
Arithmetic accuracy	Passed ✓
Cross-function race conditions	Passed ✓
Safe Zeppelin module	Passed ✓
Fallback function security	Passed ✓

Featured Wallets

Owner address	0x5A95335553630f86c853955aea45c9b50efe6C9f
TaxWallets 1	0x4A84C1009CFCD7B476878bD4B36e135195490A69
TaxWallets 2	0xaf59750889421658bFc6172Ba89972C01C7f05a4
LP token address	0xbe9407d507e59eeec20374d371021a7360302810

Top 3 Unlocked Wallets

Wallet 1 (2.91%)	0x669326e3b727730518b1533999051976ebc30eb3
Wallet 2 (0.79%)	0x0d9b1e53cbb251572d982d9f96520e8d40d22bb0
Wallet 2 (0.5%)	0x0f190fe1202a44a341b5a64bfd3dea9591de060d

Tokenomics

Current State

24% of total tokens supply is locked as follows:

- 249,125,000 \$PYO - Unlock date: 7 April 2022
- 300,000,000 \$PYO - Unlock date: 1 May 2022
- 249,125,000 \$PYO - Unlock date: 7 July 2022
- 414,862,052 \$PYO - Linear unlock 10% each month for 10 months started at 8 January 2022

Considering the unlocked circulating tokens (28% of total supply) versus tokens provided for liquidity (47% of total supply), and the fact that top 5 wallets holds ~5.2% of total supply, the price won't be affected significantly if they sell simultaneously.

Security Threats

Owner can change buy/sell fees up to 5% (combined buy+sell=10%)

```
StaticValues public staticVals = StaticValues({
    maxBuyTaxes: 500,
    maxSellTaxes: 500,
    masterTaxDivisor: 10000
});

function setTaxes(uint16 buyFee, uint16 sellFee) external onlyOwner {
    require(buyFee <= staticVals.maxBuyTaxes && sellFee <= staticVals.maxSellTaxes, "Cannot exceed maximums.");
    _taxRates.buyFee = buyFee;
    _taxRates.sellFee = sellFee;
}
```

Owner can change max sell transaction limit for users holding more than 0.1% of total supply, but can't lower it than 10% of holder's balance per transaction

```
_transfer() {
    .....
    if (lpPairs[to] && balanceOf(from) > getCirculatingSupply() / 1000 && !isExcludedFromSellLimits(from)) {
        uint256 limit = (balanceOf(from) * _maxSellPercent) / 100;
        require(amount <= limit, "Selling too much within the time limit!");
    }
    .....
}

function setMaxWalletSell(uint256 percent) external onlyOwner {
    require(percent >= 10, "Cannot set below 10%");
    _maxSellPercent = percent;
}
```

Pyrrho Project & Team Review

According to their whitepaper, the Pyrrho project was formed to launch a web platform and mobile app designed to screen DeFi projects and display only those that meet a set of standards related to transparency, security, and the availability and accuracy of verifiable information.

Native \$PYO token will be used as driving force for the Pyrrho ecosystem.

Holders can use \$PYO to purchase goods and services such as:

- Confidential Identity Verification Services
- Liquidity Pool and Token Locking
- Contract auditing
- Custodial Key Services

\$PYO will also be used for micropayments within the Pyrrho ecosystem.

Team:

 KYC by SpyWolf



https://spywolf.network/assets/kyc/2022/march/KYC_pyrrho_0xe6DF015f66653EcE085A5FBBa8d42C356114ce4F.png

Website Analysis

URL: <https://www.pyrrhollc.com/>

- **Design:** Minimalistic design, nice color scheme. Could use more images/sections.
- **Content:** Informative, well structured, no grammar mistakes.
- **Whitepaper:** Very well written and explanatory, no grammar mistakes.
- **Roadmap:** Goals set with time frames for 7 months after launch.
- **Mobile-friendly?** No ⚠
- **Technical:** SSL certificate present. General SEO check passed.



Social Media & Online Presence



Telegram

<https://t.me/pyrrho>

- 142 members
- ⚠️ Group chat is disabled



Twitter

<https://twitter.com/PyrrhoLLC>

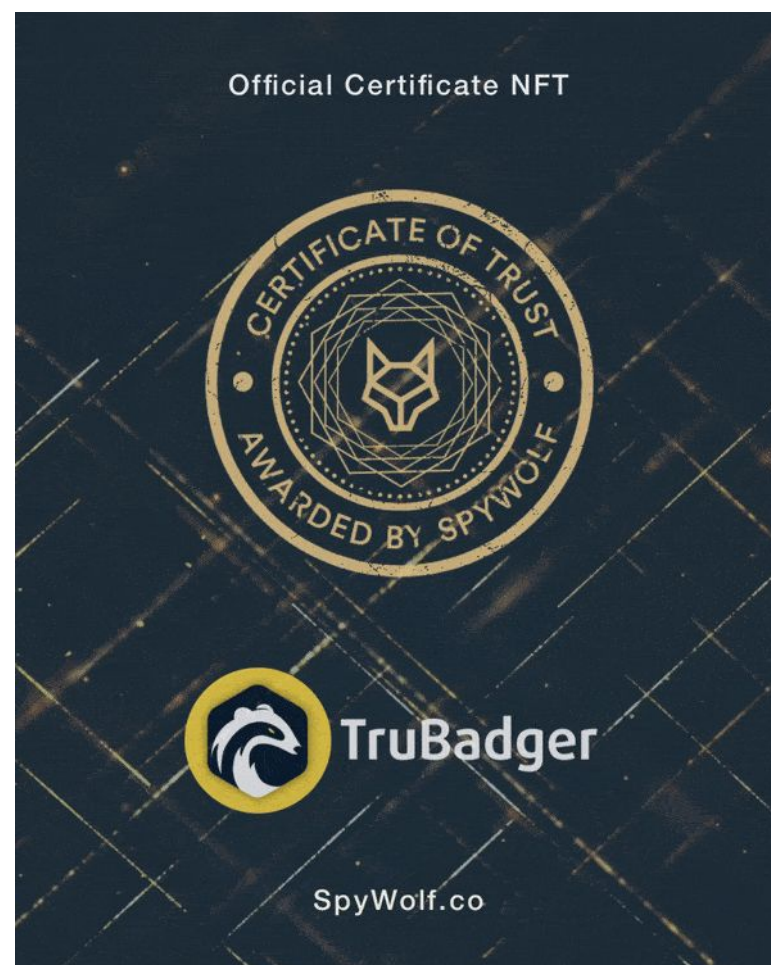
- 10 100 Followers
- Not very active, posts once every few days.
- Botted followers ⚠️



About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, \$SPY.

- Website: SpyWolf.co
- Portal: SpyWolf.network
- Telegram: [@SpyWolfNetwork](https://t.me/SpyWolfNetwork)
- Twitter: [Twitter.com/SpyWolfNetwork](https://twitter.com/SpyWolfNetwork)



(Sample Certificate NFT for those who pass audit)

If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to contact@spywolf.co.

Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.